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prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match Vuory	Query Match Length 98		Ē	Description
_	633	100.0	633	tu tu	VVE 7016	Human fibroblast q
ν.	643	100.0	636	6.7 F-1	AAA75630	Nucleatide sequenc
J.	282	45.0	682	3	AA 158540	Nucleotide sequenc
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ەر	263.4	41.5	621	ī	AA028413	olia activating I
•	263.4	41.6	624	_	AAQ28415	Glia activating I
7	264.4	41.6	1493	<u>_</u>	AAO28411	Glia activating ta
8	261.8	4).4	621		AAQ28414	Glia artivation t
ب	261	41.2	656	21	AAZ55790	cDNA encoding rat
10	261	41.2	674	N H	AAZ55791	cDNA encoding huma
_	259.6	4-1.0	521	20	82598 XAV	Human FGF-16 codit

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£	4.5	20	th.	100.2	100.6	100.6	100.6	100.6	100.6	101.2	105	105	105	105	105	105	105	105	105	105	105	105	107.2	107.2	107.2	107.2	107.2	110	110	12.12	253.8	253.8	259.6	
15. 6.	т т,	10.6	10.6				15.9			16.0	16.6	16.6	16.6	16.6	16.6		16.6		16.6	16.6		16.6	16.9	16.9	16.9				17.4	38.4	40.1	4(),]	4.	
406	400	4.76	436	800	495	495	426	426	426	108	1906	1231	1231	1231	1231	1150	1150	1150	768	768	768	768	1422	1400	1422	1121	1121	670	520	34 13 6	536	536	C21	
-	- 7	17	17	20	19	17	1.9	17	17	21	22	22	13 13	63 63	12 13	19	18	17	N N	21	19	18	19	8	.17	is N	16	22	22	1 .	21	20	3	
AAT1 : / 5 4	AATATON2	AAT14343	AAT14340	AAX87991	AAV45010	AAT14338	AAV45020	AAT14344	AAT14342	AAA38542	AAC84311	AAC91575	AAC90573	AAF44258	AAC86966	AAV21386	AAT86315	AAF58316	AAC91268	AAA75024	AAV23986	AAT42739	AAV21385	AAT86314	AAT42466	AAC91284	AAT02574	AAF23410	AAA91014	AAQ28412	AAZ55792	AAX36529	AAX 46 52 7	
KIEF dolta-N21/K(14	KGP delta-N23 cod1	Coding sequence to	Coding sequence to	Human Tibroblast q	Keratinocyte growt	Coding sequence to	Kerat mocyte growt	Coding sequence to	Coding sequence to	cona encoding rat	Haman EXCS encodin	Human PROJES CENA.	Human PRO183 CDNA.	Human Profits nucle	Nucleotide sequenc	Fibroblast growth	Human fibroblast q	Human tibroblast q	Human tibroblast d	cDNA encoding a hu	Human tibroblast 4	Human tibroblast q	Fibroblast growth	Human tibroblast q	Fibroblast growth	Human fibroblast g	Human tibroblast 4	Human SECL DNA seq	Human secreted pro	clia activating ta	Rat fibroblast gro	Rat FGF-16 coding	Pat FGF-16 coding	

ALIGNMENTS

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RESULT
                                                                                                                              AAF62019
Human fibroblast growth tactor-CX (FGF-CX) DNA sequence.
                                     no May cont (first entry)
                                                                          AAF62049;
                                                                                                              ASPECTAR STREAMENT, DNA: 633 BP.
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Pibroblist growth factor-CY: PCP-CX: would hostinus hasmatonoiesis; real growth profitoration; tumour restauces becauses human; supplyinch's confracture Kapyon experience renumentou arthurities; cartifage repair, bone repair; exostosis; bailix valgus deformity; archondroplasia; cerebral lesion; cerebral oedema; senile dementia; Alzheimer's disease; diabetic neuropathy; osteoporosis; ds

Homo sapiens.

XX PR 27-JUL-1999; 99US-0145899 PR 31-JAN-2000; 2000US 0494585		XX PD 01-FEB-2001.	PN W0200107595-A2	J.T.	For	FT	1.3		ЕН Кеу	XX	
9; 99US-0145899.	27 - HH -2000; -2000WO>HS2040S	A.	C. V - 12	/partial	/note- "Fibroblast growth factor-CX"	/product- "FGF-CX"	/*tag- a	1633	Location/Qualitiers		

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rheumatorid arthritis. Compositions containing FGP-CX can be used to stimulate cartilage or bone repair. Compositions containing FGF-CX binding agents can be used to treat discover such as multiple or sortary hereditary executors, ballux valgus deformity and ackondroplasia. FGF CX may be used in diagnosing or treating glial cell related disorders, cerebral icsions or to treat cerebral ocdema, senile dementia, alzheimer's disease, or diabetic neuropathy. FGF-CX also has
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    osteogenesis-promoting activity and can be used for treating bone tractures and osteogenesis. FSF \odot N polypeptides may be used as pratelet increasing agents, or for treating cerebral nervous diseases. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 characterised by insufficient or ineffective growth of a ceil or tissue. FGF CS is also useful for promoting growth of cells which are in the initity of a wound. "Iscular system, those involved in hadractopolesis cells in the lining of the gastrointestinal tract or cells in hair follicles, other uses include, inhibiting cell growth. FGF-CX is useful for treating, proventing or delaying a Lissue-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 633 BP; 142 A; 165 C; 195 G, 131 T, 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expression, processing or physiological interactions of FGF-CX
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Local Similarity 100.0%; Prod. No. 2.4c 128,
hes 633; Conservative 0; Mismatches 0;
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Vectors of the invention are used for treating or preventing eye The present sequence encodes a human fibroblast growth (actor (FSP)-20 FGF-20 is expressed using a gene deliver; "enter of the intention. Disclosure, Fig 29, 86pp; English.

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                                                                                                  Treating or preventing eye discuses or inhibiting mechanical disease of the eye, comprises intraocularly administering a gene derivery vector that directs expression of neurotrophic factors or
                                                                                         anti-anglogenic factors
                                                                                                                                                                        P-PSDB; AAB18635
                                                                                                                                                                                                                 Flannery JG,
                                                                                                                                                                                                                                     Manning WC,
                                                                                                                                                                                                                                                                                                              06-JAN-2000; 2000US-0174984.
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                                                                                                                                                                                                                                                                (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                               15-MAR-1999;
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                                                                                                                                                                                                                   Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     /product= "Fibroblast growth factor 20"
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Wang F, Di Polo
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Rest Lucal :
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                Nucleotide sequence of mouse EGF9 derived from EGE9:pET-3C.
                                                      17-SEP 1997 (first entry)
                                                                                                                               AATS8530 standard: DNA: 682 BP
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100.0%; Pred. No. 2.4e-128;

    Mismatches

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Mouse; chicken; fibroblast growth lactor 9; FGP9; detection: libroblast growth factor receptor 3; FGP8; cartillate repair; bone repair; antiagonist; anti-FGP9 antibody; endochondromas; bottory leceditar, exostesis, matth: Exterditory executeis; ballux calgus determity; achaedraplasia; synovial chondromatosis; ss.
                                                in a sample or tissue. The method comprises contacting the sample or tissue with PGF9, allowing formation of receptor-ligand pairs, and detecting any PGF93-PGF9 pairs. Compositions containing PGF9 can be used to increase PGFR3 activity, esp. to stimulate cartilage or bone repair. Compositions containing PGF9 antagonists or PGF9 binding adents (e.g. anti-PGF9 antibodies) can be used to treat discusse caused by an excess of PGF9 antibodies) can be used to treat discusse caused by an horedizary excess. [all a salvas 3-4 criff, achierdrephasia synowial
                                                                                                                                                                                                                                                                                                              Modical and diagnostic use of fibroblast growth factor 9 recombinant fibroblast growth factor 9 {\rm DNA}
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                                                                                                                                                                                                                                                                                                                                                                       P-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                          Yayon A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27 - DEC - 1996
                                                                                                                                                                                                 growth factor 9 (EGF9) respectively. FGF9 may be used in the method of the invention for detecting libroblast growth factor receptor 3 (EGFR3)
Sequence 682 BP; 192 A; 148 C; 186 G; 156 T; 0 other
                                                                                                                                                                                                                                          The sequences given in AAT58530-31 encode monse and chicken tibroblast
                                       chondromatosis and endochondromas
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Claim 11; Fig 2; 32pp; English
                                                                    Medical and diagnostic use of tibroblast growth factor 9 recombinant fibroblast growth factor 9 \mathtt{DNA}
                                                                                                                                                                                                      P-PSDB; AAW11548
                                                                                                                                                                                                                                          WPI; 1997-065215/06.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Solitary heroditary exostosis, multiple hereditary exostosis;
hallux valgus deternity, edendrophasia, symovial chondromatosis, ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleotide sequence of chicken FGF9 derived from FGF9 pFT-3C
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AAQ28413

AAQ28413 standard; cDNA; 621 BP

The sequences given in AAI58530-31 encode mouse and chicken fibroblast growth factor 9 (FGF9) respectively. FCF9 may be used in the method of the invention for detecting fibroblast growth factor receptor 3 (FGFR3)

GAF; stimulates glial cell growth; cerebral nerve cell lesions;

Giia activating factor coding sequence.

17-FEB-1993 (first entry)

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             in a sample or tissue. The method comprises contacting the sample or tissue with PGF9, allowing formation of receptor-ligand pairs, and detecting any PGRMS-PGF9 pairs. Compositions containing PGF9 can be used to increase PGF92 activity, esp to stimulate cartilage or bone repair. Compositions containing PGF9 antaqunists or PGF9 binding agents (e.g. anti-PGF9 antibodies) can be used to treat dispases caused by an
613 cctgaactatataagqatattetaa 637
                    60. congnattglacaasqacctactga 625
                                                                         553 artaaacggcatcaaaaatttacacatttttcacctagaccagtggaccctgagaaagta 612
                                                                                            541 formangangratikagasatttacskatttottakon anakonantinationagaaagagti 600
                                                                                                                                                      493 actqqaaqacqatactacqtqqcqttaqataqaqatqqaactcccccqqqqaaqqqcctaqq 552
                                                                                                                                                                                                                                  433 gagcagtttgaagaaaactggtataacacatattcatcaaatctatataaacacgtggac 492
                                                                                                                                                                                                                                                                                                           Sequence 560 BP; 185 A; 150 C; 184 G; 141 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           excess of EGF9 or overactivity of ECFR3, csp. moltiple of solitary boneditary excessoris ballux valgus deformity, achoedroplasia, a,to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chondromatosis and endochondromas.
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0: Mismatches 197, [63-18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Office activating factor and its DWA—specifically promotes growth of glial cells, for freating e.g. cerebral lesions, Alzheimer's disease, diabetic neuropathics, etc., also in diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 621 BP; 176 A; 132 C; 174 G; 139 T; 0 other;
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                                                                     This sequence encodes a dila activating factor. A cDNA library was prepared by introducing cDNA optible lied from aBMA of transfecting E. derived primary outlone cells into the pob vector and transfecting E. coli BHI. The library was seccenced with probes AAQ28419,20 and two
positive planes identified and sequenced. This cDNA sequence was then
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Best Local Similarity 71.7%;
Matthew 945, Conservation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 621 Bb; 176 A; (31 C; 175 G; 139 L; 0 other;
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91JP 0224454.
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Query Match
Bost Local Similarity 65.3%;
                                                                                           vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gone therapy applications to treat or provent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by scute viral hepatitis and toxic instits to the liver.
                                                                                                                                                          (PGF-16). PGF-16 has hepatocyte prollieration and growth activity, and increases hepatic production of trial, errors and sorum proteins (e.g., albumin). FGF-16 nucleic acids and/or proteins may be used for stimulating the prollieration and development of hepatocytes both in
                                                                                                                                                                                                                                                           Claim 2; Fig IA-B; 33pp; English.
                                                                                                                                                                                                                                                                                                        Fibroblast growth factor family polypeptide which stimulates proliferation and growth of hepatocytes is useful for treating hepatic
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                                                                                                                                                                                                                            This sequence represents cDNA encoding rat fibroblast growth factor-16
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                                                                  Sequence 656 BP; 144 A; 198 C; 179 G; 135 T; 0 other;
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/product: "Rat FGF-16"
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17..640
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 Pred. No. 7.16-48;
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                  DB 21;
                    Length 656;
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Matches
192 teetgeggegeegeeagetetaetgeegeaegggetteeaeettgaaatetteeeeaatg
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27 27 29 29 29 29 29 29

Sequence 674 RP, 151 A, 203 Q, 181 G, 139 T; 0 other;

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          vitro and in vivo. The isolated nucleic acid molecules may be used directly in cell or gene therapy applications to treat or precent liver disorders, including hepatic cirrhosis, fulminant liver failure, damage caused by acute viral begatitis and toxic insults to the liver.
                                                                     This sequence represents cDNA encoding human tibroblast growth Inches 16 (PGP-16) PGP-16 has hepatecyte proliferation and growth activity, and increases hepatic production of triglycerides and serum proteins (e.g., albumin) PGP-16 muchole acids and/or publics may be used for albumin) PGP-16 muchole acids and/or publics may be used for stimulating the proliferation and development of hepatocytes both in this acid is wing the colored control of the proliferation.
                                                                                                                                                                                                                     Fibroblast growth factor ramily polypeptide which stimulates proliferation and growth of bepaticytes is useful for treating hepatic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CDNA encoding human fibroblast growth factor FGF-16.
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Best Local Similarity 65.3%;
                                                                                                                                            hepatocyte growth, proliferation stimulation; liver disorder; cirrhosis; fulniment liver fallure, viral hepatitis, detection; ss.
                                                                                                                                                                                                                                                                                                                                  AAX36528 standard;
                                                                                                           Homo sapiens
                                                                                                                                                                                FGF 16; fibroblast growth factor-16; gene therapy; cell therapy; toxin;
                                                                                                                                                                                                                     Human FGF-16 coding sequence.
                                                                                                                                                                                                                                                          07-JUL 1999 (first entry)
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28-AUG-1998;

98WO-US17919.

15-APR-1999 W09918128-A1

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the invention. Vectors containing sequences that encode FGF-16 are useful in gene and cell thorapy by its view transdaction, and for production of recombinant EGF-16. Treatment of hepatocytes with FGF-16 in vitro, or in vivo, stimulates their growth and preliferation, FGF-16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 14; Fig 6; 87pp; English.
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Local Similarity (65.2%)
Los (98) Connervative
                                                                                                                                                                                                     431 dagadaactigg:afadacacetaftteatetaacatafafadacetggagacactggecgca 490
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                                                                      Query Match 41.0%; Score 259.6; DB 20; Length 621; Best Local Similarity 65.2%; Pred. No. 1.4e-47; Matches 398; Conservative 0; Mismatches 209; Indels 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FOR 16, fibroblast growth factor 16; gene therapy; cell therapy; texin; hepatocyte growth, proliferation stimulation; liver disorder; cirrhesis; fulminant liver failure; viral hepatitus; defections as.
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                                                                                                                                                                   Sequence 621 BP; 140 A; 181 C; 169 G; 131 T; 0 other;
                                                                                                                                                                                                                                              treated hepatorytes are used to treat a liver disease or disorder in the host organism, e.g. cirrhosis; fulminant liver failure; or damage caused by viral hepatitis and/or texins—eag l& is also used to raise
                                                                                                                                                                                                                                                                                                                     are useful in gene and cell therapy by in vivo transduction, and for production of recombinant FGF-16. Treatment of hepatocytes with FGF-16,
                                                                                                                                                                                                                                                                                                                                                          This sequence encodes the rat fibroblast growth factor-16 (FGF-16) of the invention. Vectors containing nucleic acid sequences that encode FGF-16
                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 12; Fig 1; 87pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   New fibroblast growth factor useful for treating liver conditions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P-PSDB; AAYU5473.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-FEB-1951;
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10-JAN-1952;
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